Application for Certification of an ADDITION ("ADD-ON") to an existing resource as an Eligible Energy Resource Under the Delaware Renewable Energy Portfolio Standard

1. Name of Facility Ruberto Residence - R. Ruberto

2. Address 11 Creek Dr,
Millsboro, DE 19966

Is the facility located within the PJM control area? ☑ **Yes** ☐ **No**
If No, does the Facility have import capabilities? ☐ **Yes** ☐ **No**

3. Name of Owner Robert Ruberto

Mailing Address same as Facility Address

Phone (302) 218-7317

Fax

Email bruberto@verizon.net

4. Name of Operator same as Owner

Address

Phone

Fax_____

Email_____

5. Name of Contact Person Allyson Browne

   Address 201 California Street, Suite 630, San Francisco, CA 94111
   _____
   _____

   Phone (415) 763 - 7732

   Fax_____

   Email applications@srectrade.com

6. Name of REC/SREC Owner Same as Owner

   Address_____
   _____
   _____

   Phone_____

   Fax_____

   Email_____

7. List all PJM-EIS GATS State Certification Numbers assigned to this facility:
   DE-99260-SUN-01-00
   PA-10670-SUN-I
   DC-101060-SUN-I

8. Operational Characteristics:

   Fuel Types Used (check all that apply):

   ☐ Gas combustion from the anaerobic digestion of organic material

   ☐ Geothermal

☐ Ocean, wave or tidal actions, currents, or thermal differences

☐ Qualified Biomass[i]

☐ Qualified Fuel Cells[ii]

☐ Qualified Hydroelectric[iii]

☐ Qualified Methane Gas captured from a landfill gas recovery system[iv]

☑ Solar

☐ Wind

If co-firing, provide the formula on file with PJM Environmental Information Services, Inc. (PJM-EIS) n/a

Rated Capacity of **ADD-ON** (Megawatts - DC) 0.0045 MW (4.5 kW)

If multiple fuel types are utilized, attach the formula for computing the proportion of output per fuel type by megawatts per hour generated.

ADD-ON Final Approved Interconnection Date 07/13/2016

If co-firing with fossil fuels, co-fire start date n/a

If co-firing with fossil fuels, attach the allocation formula on file with PJM.

9. Is the Applicant's facility customer-sited generation[v]?

☑ Yes ☐ No

Is the Applicant's facility a community owned generating facility[vi]?

☐ Yes ☑ No

Can the output from the "**ADD-ON**" customer-sited generation be separately metered?

☑ Yes ☐ No

Please note: ADD-ONs must be separately metered.

I, Allyson Browne (print name) hereby certify under penalty of perjury that

1. I have made reasonable inquiry, and the information contained in this Application is true and correct to the best of my knowledge, information and belief.

2. I am authorized to submit and execute this Application and to bind myself and/or my company to the representations contained herein.

3. I /my company agree(s) to comply with and be subject to the jurisdiction of the Public Service Commission of the State of Delaware for any matters arising out of my submission of this Application or the granting of the Application.

4. In the event that any of the information contained in this Application changes pending the consideration of this Application or after the Application is granted, I/my company will amend the Application to provide the Commission with such changed information.

5. I acknowledge that if any of the representations made in this Application or in any amendment thereto are found to be untrue when made, I/the company may be subject to sanctions, including but not limited to monetary fines and/or the revocation of any Certificate granted as a result of the representations made in this Application.

Signature: Allyson Browne

Date: 05/24/2017

Required Documentation:

- If the facility is customer-sited generation, attach a copy of the "Accepted Completed Solar System Interconnection Application" for the **ADD-ON**

- If the facility is a community-owned energy generating facility, attach a list of contact information (names, address, phone number, fax, and email) of all owners or customers who are sharing the output of the generator.

- One copy of U.S. Department of Energy, Energy Information Administration Form EIA-860, if rated capacity is >1.0 MW

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[i] "Qualified Biomass" means electricity generated from the combustion of biomass that has been cultivated in a sustainable manner as determined by Delaware Department of Natural Resources and Environmental Control (DNREC), and is not combusted to produce energy in a waste to energy facility or in an incinerator.

[ii] "Qualified Fuel Cells" means electricity generated by a fuel cell powered by Renewable Fuels, as that term is defined in Section 1.0 of the Rules and Procedures to Implement the Renewable Energy Portfolio Standard, Delaware Public Service Commission Regulation Docket No. 56.

[iii] "Qualified Hydroelectric" means electricity generated by a hydroelectric facility that has a maximum design capacity of 30 megawatts or less from all generating units combined that meet appropriate environmental standards as determined by DNREC.

[iv] "Qualified Methane Gas" means electricity generated by the combustion of methane gas captured from a landfill gas recovery system; provided, however, that:

1. Increased production of landfill gas from production facilities in operation prior to January 1, 2004 demonstrates a net reduction in total air emissions compared to flaring and leakage;
2. Increased utilization of landfill gas at electric generating facilities in operation prior to January 1, 2004 (i) is used to offset the consumption of coal, oil, or natural gas at those facilities, (ii) does not result in a reduction in the percentage of landfill gas in the facility's average annual fuel mix when calculated using fuel mix measurements for 12 out of any continuous 15 month period during which the electricity is generated, and (iii) causes no net increase in air emissions from the facility; and
3. Facilities installed on or after January 1, 2004 meet or exceed 2004 Federal and State air emission standards, or the Federal and State air emission standards in place on the day the facilities are first put into operation, whichever is higher.

[v] "Customer-sited Generation" means a generating unit that is interconnected on the end use customer's side of the retail electricity meter in such a manner that it displaces all or part of the metered consumption of the end-use customer.

[vi] "Community-owned Energy Generating Facility" means a renewable energy generating facility that has multiple owners or customers who share the output of the generator, which may be located either as a stand-alone facility or behind the meter of a participating owner or customer. The facility shall be interconnected to the distribution system and operated in parallel with an electric distribution company's transmission and distribution facilities.

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

An applicant (Generator Owner) makes application to Delaware Electric Cooperative to install and operate a generating facility less than 100 kW DC and interconnected with the Delaware Electric Cooperative utility system.

Section 1, Applicant Information Directly Interconnected to the Generating System

Is the following system: ☐ Leased or ■ Member Owned

Type of Application: ☐ Initial or ■ Addition/Upgrade

Name:____Bob Ruberto_____

Mailing Address:_11 Creek Drive _____

City:__Millsboro_____State:___DE_____ZipCode:_19966_____

Email Address: _bruberto@verizon.net_____

Facility Location (if different from above): _____

Telephone: Area Code _302__ Number _218-7317____ (Evening) Area Code_____Number_____

Delaware Electric Cooperative Account No.:_4048201_____ Rate Code:_1B2___

Section 2, Equipment Contractor

Name:__Alutech United Inc_____

Mailing Address:__117 Dixon St _____

City:_Selbyville _____State:__DE_____ZipCode:__19975_____

Email Address: Haleigh@greenstreetsolar.com Telephone (Daytime): Area Code 302_____ Number _297-8174____

Section 3, General Service Requirements

If different from the existing service, what size service will the generation facility require?

■ 200A ☐ 400A ☐ 600A ☐ 800A

If this is a new account for a Solar System, what Voltage/Phase will be required?

■ 120/240V-1Ph ☐ 120/208V-1Ph ☐ 120/208V-3Ph ☐ 277/480V-3Ph

Section 4, Application Fee

This application fee is applicable for all new PV applications received on or after May 20, 2016. The cost will be $50.00 per application (new and/or upgrade) for systems 25 kW DC or less. For systems over 25 kW DC the fee will be $50.00 plus $1.00 kW DC over 25 kW DC. All interconnection applications submitted to DEC shall be

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

accompanied with the appropriate fee made out to Delaware Electric Cooperative and are non-refundable. No applications will be considered without the fee.

Section 5, Generator Type

Is Generator powered from a Renewable Energy Source: ■ Yes No ☐

Type of Energy Source (if applicable): ■ Solar ☐ Wind ☐ Other _____

Other generator energy source: ☐ Diesel ☐ Natural Gas ☐ Fuel Oil Other: _____

Will excess power be exported to Delaware Electric Cooperative? ■ Yes No ☐

(Typical) Maximum Export: ___4_____kW DC/AC

2 Yr. Avg. Annual Usage (kWh): _____ Forecast Annual kWh: _____

(Note: The Annual Forecast MUST be completed using **4.5 peak sun light hours per days)**

Section 5, Generator Technical Information

Please fill out the Initial Rating information if there is currently no generating facility on-site. If adding a generating facility to an existing facility, fill out the Initial Rating Information, the Added Rating Information and the Total Rating Information

Generator (or solar collector) Manufacturer, Model Name & Number: _SolarWorld 300w MONO _____
(A copy of Generator Nameplate and Manufacturer's Specification Sheet may be substituted)

Inverter Manufacturer, Model Name & Number (if used): _____Enphase M-250_____
(A copy of Inverter Nameplate and Manufacturer's Specification Sheet may be substituted)

Initial Rating:
DC System Design Capacity: 3.5 (kW) 3500 (kVA)
Inverter Capacity: 3.8 (Maximum AC kW)
AC System Design Capacity: 3.325 (kW) 3325 (kVA)

Added Rating:
DC System Design Capacity: __4.5_____ (kW) ___4500_ (kVA)
Inverter Capacity: _3.75_____ (Maximum AC kW)
AC System Design Capacity: __3.75_____ (kW) __3750_____ (kVA)

Total Rating (Existing and New):
DC System Design Capacity: 8 (kW) 8000 (kVA)
Inverter Capacity: 7.55 (Maximum AC kW)
AC System Design Capacity: 7.075 (kW) 7075 (kVA)

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

Generator Disconnect Switch:
A lockable disconnect device shall be installed within 3 feet of the DEC meter and accessible at all times by DEC personnel, by and at the cost of the owner.

Section 6, Generator/Equipment Certification

Generating systems that utilize inverter technology must be compliant with *IEEE 929* and *Underwriters Lab. UL 1741*. Generating systems that use a rotating machine must be compliant with Delaware Electric Co-op's *Technical Requirements For Parallel Operation of Member Owned Generation* document. **By signing below, the Applicant certifies that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance.**

Name (print):___Bob Ruberto_____ Date: __5/27/16

Signed (Applicant): _____

Section 7, Aggregated Meter Information (If Applicable)

The following aggregated accounts shall be ranked according to the order in which credits shall be applied (We don't apply the credit; however, DEC may elect to make payment to the account serving the Generating System) Additionally, the following accounts must be active accounts and will be used to determine the total 2-year Annual Average kWh to ensure the new system is in compliance with DEC tariff.

1 - DEC Member Name _____ Rate Code: _____

DEC Account No.:_____ Capacity (DEC):_____ 2 Yr Annual Average kWh:_____

2 - DEC Member Name _____ Rate Code: _____

DEC Account No.:_____ Capacity (DEC):_____ 2 Yr Annual Average kWh: _____

3 - DEC Member Name _____ Rate Code: _____

DEC Account No.:_____ Capacity (DEC):_____ 2 Yr Annual Average kWh: _____

4 - DEC Member Name _____ Rate Code: _____

DEC Account No.:_____ Capacity (DEC):_____ 2 Yr Annual Average kWh: _____

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

Any additional meters associated with this aggregated system must be supplied on a separate sheet in the same format.

Prior to installation send the completed Pages 1-3 to Delaware Electric Cooperative, Attn: Troy Dickerson, Manager of Engineering: Phone: (302) 349-3125 Email: tdickerson@decoop.com or mail to P.O. Box 600 Greenwood, DE 19950

Section 8. PRELIMINARY Approval to Proceed with Interconnection

Delaware Electric Cooperative: [X] Has Approved [ ] Has Not Approved this Preliminary Application.

Name: _____ Date: 6/3/16

Signature: Tom Wright Digitally signed by Tom Wright DN: cn=Tom Wright, o, ou=Delaware Electric Coop, email=twright@decoop.com, c=US Date: 2016.06.03 15:14:58 -04'00'

Reason of Not Approving: _____

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

Section 9, Installation Details
Generating System will be installed by: ☐ Owner ■ State Licensed Electrician

Installing Electrician: James Rodrigue Firm: _Alutech United Inc _____ License No.: T1-0005686

Mailing Address: _117 Dixon St _____

City: _Selbyville _____ State:___DE_____ Zip Code: ___19975_____

Telephone with Area Code: _800-233-1144_____

Installation Date: _____ Interconnection Date: _____

Supply certification that the generating system has been installed and inspected in compliance with the local Building/Electrical code of the municipality of _____

Signed (Inspector): _____ Date:_____
(In lieu of signature of Inspector, a copy of the final inspection certificate may be attached)

Section 10, Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct.

Name of Applicant (Printed): _____ Date: _____

Signature of Applicant: ___Bob Ruberto _____

Section 11, FINAL Approval or Non-Approval

Delaware Electric Cooperative: ☒ Has Approved ☐ Has Not Approved this Interconnection Application.

Name : Tom _____ Date: 7/13/16

Signature: Wright _____

Digitally signed by Tom Wright
DN: cn=Tom Wright, o, ou=Delaware Electric Coop, email=twright@decoop.com, c=US
Date: 2016.07.13 10:53:13 -04'00'

Reason of Not Approving: _____

_____

Approval to connect to the Company system indicates only that the minimum requirements for a safe proper interconnection have been satisfied. Such approval does not imply that the Generator Owner's facility meets all federal, state and local standards or regulations.

Delaware Electric Cooperative
Generator Interconnection Application – Short Form
(For Use with Generators less than 100 kW DC)

Section 12, Internal Checks and Notifications

DEC has performed a site visit and approved the system:	☐ Yes
DEC has installed a Warning Label on or near the service meter:	☐ Yes
Notify Billing Dept. of Interconnected Generation:	☐ Yes
Notify Mapping Dept. of Interconnected Generation:	☐ Yes
Notify Metering Dept. of Interconnected Generation:	☐ Yes
Notify System Protection of Interconnected Generation:	☐ Yes

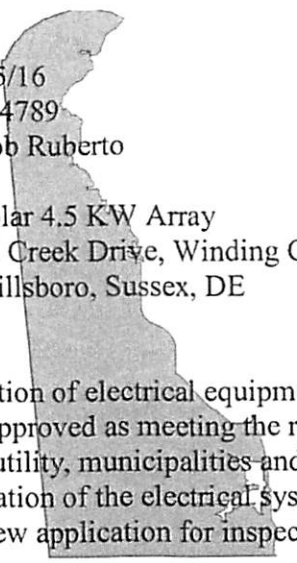
At completion send Pages 5 - 6 to Delaware Electric Cooperative, Attn: Troy Dickerson, Manager of Engineering: Phone: (302) 349-3125 Email: tdickerson@decoop.com or mail to P.O. Box 600 Greenwood, DE 19950

First State Inspection Agency, Inc.
1001 Mattlind Way
Milford, DE 19963

1-800-468-7338
302-422-3859

Alutech United, Inc.
James Rodrigue
PO Box 329
Selbyville, DE 19975

CERTIFICATE



Final Inspection Date:	7/5/16
Application #:	024789
Owner:	Bob Ruberto
Customer Job #:	
Occupancy:	Solar 4.5 KW Array
Location:	11 Creek Drive, Winding Creek Village, Millsboro, Sussex, DE

This certifies that the installation of electrical equipment listed on referenced application has been approved as meeting the requirements of the National Electric Code, utility, municipalities and Agency rules. Any modification, addition or alteration of the electrical system, after the date of final inspection, will require a new application for inspections and certifications.

Robert Lee

Chief Electrical Inspector

F.S. CERT

10. If the Applicant's installation is solar or wind sited in Delaware, is a minimum of 50% of the cost of the renewable energy equipment, inclusive of mounting components, manufactured in Delaware?

☐ Yes* ☒ No

Altech United Inc DBA Green Street Solar
Company Name of Installer

Haleigh Tingle
Signature of Company Representative

117 Dixon St.
Address

Haleigh Tingle
Print Name of Co. Representative

Selbyville DE 19975
Address

***If Yes, please attach the following documentation:**

- A copy of the supplier's invoice showing Delaware manufactured equipment with this facility identified
  - If the supplier's invoice shows only a coded Purchase Order (PO) number, a copy of the company's matching PO that includes the address where the materials were used/installed, must also be supplied
  - If using a master invoice, a record of the draws against the purchased quantity, on the master invoice, must show the address of each use and the quantity of material used

11. If the Applicant's installation is solar or wind sited in Delaware:

a. Was the facility physically constructed or installed with a workforce that consists of at least 75% Delaware residents?
☐ Yes* ☒ No

b. Does the installing company employ, in total, a minimum of 75% workers who are Delaware residents?

☐ Yes* ☒ No

Altech United Inc DBA Green Street Solar
Company Name of Installer

Haleigh Tingle
Signature of Company Representative

117 Dixon St.
Address

Haleigh Tingle
Print Name of Co. Representative

Selbyville DE 19975
Address

***If Yes, please attach supporting documentation (see pages 7-8 for details). Please note, in order to qualify for the Labor/Workforce Bonus, at least one of the options (a. or b.) must be met.**

Documentation Required for Delaware Labor/Workforce Bonus

11. If the Applicant's installation is solar or wind sited in Delaware:

    a. Was the facility physically constructed or installed with a workforce that consists of at least 75% Delaware residents?

If you answered yes to "a." above, complete the following as evidence.

The following individuals (list every employee) were employed by

Alltech United Inc DBA Green Street Solar

Installation Company Name

as direct labor (physical construction and installation) for this facility: (Attach additional sheets if necessary)

Please complete the following information for all individuals listed above:

Name	Home Address (As per Tax Withholding)	Social Security Number (Last 4 digits only)

Total Delaware Resident Employees: 26 **Total Number of Employees:** 35

% of Delaware Residents (Delaware Residents Divided by Total Employees): 74%

Documentation Required for Delaware Labor/Workforce Bonus

11. If the Applicant's installation is solar or wind sited in Delaware:

    b. Does the installing company employ, in total, a minimum of 75% of workers who are Delaware residents?

If you answered yes to "b." above, complete the following as evidence:

Altech United Inc DBA Green Street Solar

Installation Company Name

employed the following individuals (list EVERY employee on the payroll during the period from project start date until project completion date). Projects are considered complete upon final interconnection approval to operate. (Attach additional sheets if necessary)

Project Start Date: 6/30/2016 Project Complete Date: 7/13/2016

Employee Full Name	Home Address (As per Tax Withholding)	Social Security Number (Last 4 digits Only)

Total Delaware Resident Employees: 26 **Total Number of Employees:** 35

% of Delaware Residents (Delaware Residents Divided by Total Employees): 74%

	NAME	STREET ADDRESS	CITY	ST	ZIP	SS#
1	Aaron Woods	22763 Coverdale Road	Seaford	DE	19973	25
2	Adam Ash	36096 Zion Church Road	Frankford	DE	19945	24
3	Antione Johnson	27542 Holly Hock Lane	Seaford	DE	19973	29
4	Brian Reed, Jr.	233 Briarwood Circle	Denton	MD	21629	00
5	Daniel Fleetwood, III	36157 Millers Neck Road	Frankford	DE	19945	68
6	Daniel Pacini	39096 Zion Church Road	Frankford	DE	19945	75
7	David Linehan	26393 Sea Mist Court	Millsboro	DE	19966	85
8	Derek Dykes	31866 Mountain Laurel Ridge	Laurel	DE	19956	74
9	Donnie Baker Jr.	35359 Danny Drive	Laurel	DE	19956	60
10	Donnie Baker III	35359 Danny Drive	Laurel	DE	19956	58
11	Dustin Brittingham	2 Leah Street	Georgetown	DE	19947	01
12	Erik Diaz-Padilla	105 Caroline St., Unit 6	Ocean City	MD	21842	15
13	Erwin Cordoba-Jimenez	28 W Duke St	Selbyville	DE	19975	71
14	George Carey	36966 Deer Drive	Selbyville	DE	19975	69
15	George Pfaller	24501 Cedar Lane	Georgetown	DE	19947	48
16	Haleigh Tingle	6635 Libertytown Road	Berlin	MD	21811	30
17	James Webb	629 Gun and Rod Club Road	Harrington	DE	19952	63
18	Jason Killen	16502 Old Furnace Road	Georgetown	DE	19947	18
19	Jason Roth	36851 Old Mill Bridge Road	Selbyville	DE	19975	90
20	John Basch	1504 Sharen Drive, Apt. F	Salisbury	MD	21801	96
21	Jose Cordoba	Lazy Lagoon Lot 41	Frankford	DE	19945	42
22	Justin Buoncristiano	1011 Scarborough Ave	Rehoboth Beach	DE	19971	45
23	Lisa Bloom	403 143rd Street, Unit 5	Ocean City	MD	21842	74
24	Mark Caldwell	1004 Philadelphia Avenue, Unit 5	Ocean City	MD	21842	20
25	Michael Haymond	12640 Beach Hwy.	Greenwood	DE	19950	01
26	Michael Johnson	123 Copperfield Lane	Felton	DE	19943	31
27	Richard Gedon	26170 Skip Jack Ln.	Millsboro	DE	19966	04
28	Richie Wright	5637 Caledonia Drive	Salisbury	MD	21801	40
29	Russell Pfaller	7167 Chatham Manor Way	Pittsville	MD	21850	98
30	Tomas Flores-Rivera	12 Jefferson Court	Seaford	DE	19973	55
31	Tony Jones Jr.	24383 E Dove St.	Seaford	DE	19973	50
32	Tyler Burr	403 143rd Street, Unit 5	Ocean City	MD	21842	69
33	Tyron Dixon	24691 Nickle Street	Seaford	DE	19958	57
34	W. Jeffrey Timmons	11127 Signature Blvd.	Selbyville	DE	19975	52
35	William Warden, Jr.	26163 Kelly Circle	Seaford	DE	19973	89

26/35=74%